

# ECONOMIC BOTANY

Devoted to Past, Present, and Future Uses of Plants by People

Founded by

Edmund H. Fulling

Publication of The Society for Economic Botany

**VOLUME 52**

**1998**

Published for The Society

by

THE NEW YORK BOTANICAL GARDEN PRESS

Printed by  
Allen Press, Inc.  
Lawrence, Kansas



**NUMBER 1**  
**January–March 1998**

The Distinguished Economic Botanist, Carlos M. Ochoa 1997 .....	1
Ecogeography and Breeding Potential of the Wild Peruvian Tuber-Bearing Species of <i>Solanum</i> <i>Carlos M. Ochoa</i> .....	3
Tapping Oleoresin from <i>Dipterocarpus alatus</i> (Dipterocarpaceae) in a Lao Village <i>Renée Ankarfjärd and Miran Kegl</i> .....	7
Economic Botany and Ethnobotany in Al-Andalus (Iberian Peninsula: Tenth–Fifteenth Centuries), an Unknown Heritage of Mankind <i>J. Esteban Hernández-Bermejo, and Expiración García-Sánchez</i> .....	15
The Medicine and Medicinal Plants of C. S. Rafinesque <i>Michael A. Flannery</i> .....	27
Ectomycorrhizal Fungi with Edible Fruiting Bodies 2. <i>Boletus edulis</i> <i>I. R. Hall, A. J. E. Lyon, Y. Wang, and L. Sinclair</i> .....	44
Usefulness and Economic Potential of the Rare Plants of the United States: A Statistical Survey <i>Oliver L. Phillips and Brien A. Meilleur</i> .....	57
Re-Evaluation of Early Observations on Coconut in the New World <i>Daniel Zizumbo-Villarreal and Hermilo J. Quero</i> .....	68
Genetic Diversity of Pistachio ( <i>Pistacia vera</i> , Anacardiaceae) Germplasm based on Randomly Amplified Polymorphic DNA (RAPD) Markers <i>J. I. Hormaza, K. Pinney, and V. S. Polito</i> .....	78
The Indiscriminate Vector: Human Distribution of <i>Dichondra micrantha</i> (Convolvulaceae) <i>Daniel F. Austin</i> .....	88
Notes on Economic Plants	
Presence, History and Uses of <i>Lavatera arborea</i> (Malvaceae) on Linosa Island (Italy) <i>Gaetano Laghetti and Karl Hammer</i> .....	107
The Use of <i>Epipremnum pinnatum</i> (Araceae) in Singapore in the treatment of Cancer: an unreported application of a herbal medicine <i>Lily M. J. Chan and I. M. Turner</i> .....	108
Announcement .....	109
Society for Economic Botany <i>Ghillean Prance</i> .....	110
Book Reviews .....	2, 77, 87, 111
<i>Economic Botany</i> Policies and Manuscript Requirements .....	121

Issued 31 March 1998

**NUMBER 2**  
**April–June 1998**

Search for the Wild Ancestor of Buckwheat III. The Wild Ancestor of Cultivated Common Buckwheat, and of Tatary Buckwheat <i>Ohmi Ohnishi</i> .....	123
Distinguishing Rice ( <i>Oryza sativa</i> , Poaceae) from Wild <i>Oryza</i> Species through Phytolith Analysis, II: Finalized Method <i>Zhijun Zhao, Deborah M. Pearson, Robert A. Benfer, Jr., and Dolores R. Piperno</i> .....	134
Indigenous Resource Rights and Conservation of the Monkey-Puzzle Tree ( <i>Araucaria araucana</i> , Araucariaceae): A Case Study from Southern Chile <i>David L. Aagesen</i> .....	146
Phenology, Breeding System and Fruit Development of Argan ( <i>Argania spinosa</i> , Sapotaceae) Cultivated in Israel <i>Avinoam Nerd, Vered Irijimovich, and Yo-sef Mizrahi</i> .....	161
Productivity and Sustainability of a Vegetable Ivory Palm ( <i>Phytelephas aequatorialis</i> , Arecaceae) Under Three Management Regimes in Northwestern Ecuador <i>J. Velásquez Runk</i> .....	168
Gaz of Khunsar: The Manna of Persia <i>Bahram Grami</i> .....	183
Ectomycorrhizal Fungi with Edible Fruiting Bodies 3. <i>Tuber magnatum</i> Tuberaceae <i>I. R. Hall, A. Zambonelli, and F. Primavera</i> .....	192
Sugarbeet Culture and Mormon Economic Development in the Intermountain West <i>Robert A. Burton and Paul Alan Cox</i> .....	201
Notes on Economic Plants	
Native Detoxification of Bulbs of Mountain Pima Spider-lily ( <i>Hymenocallis pima</i> , Amaryllidaceae) <i>Joseph E. Laferrière</i> .....	207
Collecting and Conserving Ipecac ( <i>Psychotria ipecacuanha</i> , Rubiaceae) Germplasm in Brazil <i>Ladislau A. Skorupa and Marta C. Assis</i> .....	209
Book Reviews .....	133, 145, 182, 191, 200, 206, 211
<i>Economic Botany</i> Policies and Manuscript Requirements .....	227

Issued 16 June 1998

**NUMBER 3**  
**July–September 1998**

Medicinal Plant Ecology, Knowledge, and Conservation in Kalimantan, Indonesia <i>Izefri Caniago and Stephen F. Siebert</i> .....	229
Use and Trading of Wild Edible Herbs in the Central Lowveld Savanna Region, South Africa <i>S.E. Shackleton, C.M. Dzerebos, C.M. Shackleton, and F.R. Mathabela</i> .....	251
The Delphic Bee: Bees and Toxic Honeys as Pointers to Psychoactive and Other Medicinal Plants <i>Jonathan Ott</i> .....	260
Wild Fruit Trees and Shrubs of Southern Africa: Geographic Distribution of Species Richness <i>Eileen M. O'Brien and Charles R. Peters</i> .....	267
The Trade in Medicinal and Aromatic Plants from Central Nepal to Northern India <i>Carsten Smith Olsen</i> .....	279
Theobromine, Theophylline, and Caffeine in 42 Samples and Products of Guarana ( <i>Paullinia cupana</i> , Sapindaceae) <i>Barbara Meurer-Grimes, A. Berkov, and H. Beck</i> .....	293
Extraction of Non-timber Forest Products in the Forests of Biligiri Rangan Hills, India. 4. Impact on Floristic Diversity and Population Structure in a Thorn Scrub Forest <i>Uma Shankar, K.S. Murali, R. Uma Shaanker, K.N. Ganeshiah, and K.S. Bawa</i> .....	302
Extraction of Non-timber Forest Products in the Forests of Biligiri Rangan Hills, India. 5. Influence of Dispersal Mode on Species Response to Anthropogenic Pressures <i>K.N. Ganeshiah, R. Uma Shaanker, K.S. Murali, Uma Shankar, and K.S. Bawa</i> .....	316
Extraction of Non-timber Forest Products in the Forests of Biligiri Rangan Hills, India. 6. Fuelwood Pressure and Management Options <i>Uma Shankar, Ravi Hegde, and K.S. Bawa</i> .....	320
Book Reviews .....	266, 278, 337–340
<i>Economic Botany</i> Policies and Manuscript Requirements .....	341

Issued 21 August 1998

**NUMBER 4**  
**October–December 1998**

<i>Diospyros</i> Species in Thailand: Their Distribution, Fruit Morphology and Uses <i>Naoki Utsunomiya, Suranant Subhadrabandhu, Keizo Yonemori, Masayoshi Oshida, Shinya Kanzaki, Fumiaki Nakatsubo and Akira Sugiura</i> ....	343
Huron Smith's Ethnobotany of the Hocök (Winnebago) <i>Kelly Kindscher and Dana P. Hurlburt</i> .....	352
Chemical Composition, Nutritional Evaluation, and Economic Prospects of <i>Spondias purpurea</i> (Anacardiaceae) <i>Michael J. Koziol and Manuel J. Macia</i> .....	373
Uses of Saw Palmetto ( <i>Serenoa repens</i> , Arecaceae) in Florida <i>Bradley C. Bennett and Judith R. Hicklin</i> .....	381
Tradition, Uses and Biodiversity of Rocket ( <i>Eruca sativa</i> , Brassicaceae) in Israel <i>Zohara Yaniv, D. Schafferman, and Z. Amar</i> .....	394
Vegetative, Reproductive, and Physiological Adaptations to Aridity of Pitayo ( <i>Stenocereus queretaroensis</i> , Cactaceae) <i>Eulogio Pimienta-Barrios and Park S. Nobel</i> .....	401
Xixicamátic or Wood Rose ( <i>Merremia tuberosa</i> , Convolvulaceae): Origins and Dispersal <i>Daniel F. Austin</i> .....	412
<b>Notes on Economic Plants</b>	
Pandanus, Screwpine Painting in Fifth Century Buddhist Caves at Bagh, Madhya Pradesh, India <i>M. M. Payak</i> .....	423
<b>Book Reviews</b> .....	372, 400, 425, 427, 428
<b>Announcements</b> .....	426, 427
<b>Books Received</b> .....	441
<b>Volume 52: Index to Subjects</b> .....	448
<b>Volume 52: Index to Authors and Titles of Papers</b> .....	451
<b>Manuscript Reviewers: 1998</b> .....	454
<b>Volume 52: Index to Book Reviews</b> .....	454
<b>Volume 52: Index to Book Reviewers</b> .....	458
<b>Manuscript Requirements</b> .....	459
<b>Volume 52: Contents</b> .....	i
<b>Statement of Ownership</b> .....	ii

Issued 30 November 1998

